

**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**  
(Chapter II of the Patent Cooperation Treaty)  
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>VMACOSPCT</b>	<b>FOR FURTHER ACTION</b>		See Form PCT/IPEA/416
International application No. <b>PCT/US03/35057</b>	International filing date ( <i>day/month/year</i> ) <b>03 November 2003 (03.11.2003)</b>	Priority date ( <i>day/month/year</i> ) <b>02 November 2002 (02.11.2002)</b>	
International Patent Classification (IPC) or national classification and IPC <b>IPC(7): A61K 31/74, 7/025; C14C 1/06 and US Cl.: 424/78.03, 64; 8/161</b>			
Applicant <b>CO2 SOLUTIONS, LLC</b>			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>2</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>5</u> sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Box No. I Basis of the report</li> <li><input type="checkbox"/> Box No. II Priority</li> <li><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li><input type="checkbox"/> Box No. IV Lack of unity of invention</li> <li><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li><input type="checkbox"/> Box No. VI Certain documents cited</li> <li><input type="checkbox"/> Box No. VII Certain defects in the international application</li> <li><input type="checkbox"/> Box No. VIII Certain observations on the international application</li> </ul>			
Date of submission of the demand <b>28 May 2004 (28.05.2004)</b>	Date of completion of this report <b>02 September 2004 (02.09.2004)</b>		
Name and mailing address of the IPEA/ US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	<p>Authorized officer <b>DEBORAH A. THOMAS</b> <b>PARALEGAL SPECIALIST</b> <b>GROUP 1300</b> <i>DAT</i></p> <p>Telephone No. 571-272-1700</p>		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International Application No.

PCT/US03/35057

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:

- international search (under Rules 12.3 and 23.1(b))
- publication of the international application (under Rule 12.4)
- international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

- the international application as originally filed/furnished
- the description:  
pages 1-20 \_\_\_\_\_ as originally filed/furnished  
pages\* NONE \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages\* NONE \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- the claims:  
pages NONE \_\_\_\_\_ as originally filed/furnished  
pages\* NONE \_\_\_\_\_ as amended (together with any statement) under Article 19  
pages\* 21-25 \_\_\_\_\_ received by this Authority on 28 May 2004 (28.05.2004)  
pages\* NONE \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- the drawings:  
pages 1/4-4/4 \_\_\_\_\_ as originally filed/furnished  
pages\* NONE \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages\* NONE \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3.  The amendments have resulted in the cancellation of:

- the description, pages \_\_\_\_\_
- the claims, Nos. \_\_\_\_\_
- the drawings, sheets/figs \_\_\_\_\_
- the sequence listing (*specify*): \_\_\_\_\_
- any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- the description, pages \_\_\_\_\_
- the claims, Nos. \_\_\_\_\_
- the drawings, sheets/figs \_\_\_\_\_
- the sequence listing (*specify*): \_\_\_\_\_
- any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/US03/35057**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims 1-30	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims 1-30	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims 1-30	YES
	Claims <u>NONE</u>	NO

**2. Citations and Explanations (Rule 70.7)**

Claims 1-30 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a liquid hand soap composition comprising an encapsulated material within a non-aqueous carrier capsule, wherein the encapsulated material comprising a dye, a fragrance, a base or acid, ruptures after a duration of time exposure to water resulting in three or more phase color change.

The prior art of record teach encapsulated vehicle systems for use in cosmetic compositions for imparting dye, fragrance, acid or base to hair. However, the prior art does not specifically teach three or more phase color change. None of the prior art of record teach a soap composition comprising encapsulated dyes that rupture after a duration of time exposure to water resulting in three or more phase color changes.

Claims 1-30 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.

----- NEW CITATIONS -----